

Concurrent Degree in Physics and Engineering Checklist

Year 1: Admission Requirements (Minimum Grade)

NMM 1412A: Calculus I (60%) ☐	NMM 1414B: Calculus II (60%) ☐
Physics 1401A: Physics I (60%) ☐	Physics 1402B: Physics II (60%) ☐
NMM 1411A/B: Lin. Algebra (55%) ☐	Chemistry 1302A/B: Chem I (50%) ☐

NMM Math Courses – The Following 1.0 Credits Count to Both Degrees

NMM 2270A: App. Math. for Engineering II [<i>Fall – MWF – 8:30AM -9:30 AM</i>] ☐
NMM 2276B or 2277B: App. Math. for Eng. III [<i>Winter – MWF – 8:30AM – 9:30AM</i>] ☐

Remaining Module: 5.0 Physics Credits

Each of the following courses (2.0 total credits)

Physics 2101A: Intermediate Physics [<i>Fall – MWF 10:30AM -11:30 AM</i>] ☐
Physics 2104B: Intro to Quantum Mechanics [<i>Winter – MWF 10:30AM -11:30 AM</i>] ☐
Physics 2110A: Oscillations and Waves [<i>Fall – MWF 9:30AM -10:30 AM</i>] ☐
Physics 2910G: Intro to Physical Measurement [<i>Winter – MTW 9:30AM -10:30 AM</i>] ☐

Four of the following six courses (2.0 total credits)

Physics 3151A: Classical Mechanics [<i>Fall – MWF 11:30AM -12:30 PM</i>] ☐
Physics 3200B: Quantum Mechanics I [<i>Winter – Tu 12:30PM -1:30 PM, Th 11:30AM – 1:30PM</i>] ☐
Physics 3300A: Electromagnetic Theory I [<i>Fall – Tu 10:30AM -12:30 PM, Th 11:30AM – 12:30PM</i>] ☐
Physics 3400B: Introduction to Thermal Physics [<i>Winter – MWF 9:30AM – 10:30AM</i>] ☐
Physics 4251A: Quantum Physics II [<i>Fall – MWF 10:30AM – 11:30AM</i>] ☐
Physics 4351B: Electromagnetic Theory II [<i>Winter – MWF 10:30AM – 11:30AM</i>] ☐

One of the following courses (0.5 total credits)

Physics 3900G: Senior Physics Laboratory [<i>Winter – MW – 2:30 PM -5:30 PM</i>] ☐
Physics 3926F: Computer Simulations in Physics [<i>Fall – W – 2:30 PM – 4:30PM</i>] ☐

One 0.5 credits from any Physics or Astronomy course not yet taken numbered 2100 or above, including any of the above listed courses not already counted towards the major (0.5 total credits)

Additional Course 1: _____ ☐

**Note: must also complete two non-credit seminar courses [Meetings Thurs 3:30pm-4:30pm]*

Physics 2950Y: Year Two Seminar ☐ **Physics 3950Y:** Year Three Seminar ☐

***The above degree is only valid if an Engineering program at Western is completed concurrently*

****Total 1.0 Category B Arts and Humanities credits are required for the degree*